



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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December 13, 1993

TO: Minerals File

FROM: Holland Shepherd, Senior Reclamation Specialist *HS*

RE: Kennecott/ARCO Multimedia Team, Bingham Canyon Mine, Kennecott Corp., M/035/002, Salt Lake County, Utah

Date of Meeting: December 9, 1993
Time of Meeting: 9:00 a.m. - 11:30 a.m.
Participants: Randy Taylor, Brent Everett, Tia Leber, Diane Simmons, DERR;
John Whitehead, DWQ; Denise Chancellor, UAG; Bill Wallner,
DSHW; Wayne Hedberg, Lowell Braxton, Holland Shepherd,
DOGM

Introduction

This meeting was called by DERR to summarize and exchange information concerning Kennecott Corporations Bingham Mine and Garfield Smelter operations. A lot of activity is currently taking place associated with these sites (expansion of operations and CERCLA clean-up). DERR is concerned that all government players are being heard and that the various regulatory agencies are sharing information.

Main Discussion

DERR staff drew up the attached outline. The discussion continued through DOGM issues, item IX of the outline. Some highlights of the discussion follow:

1. Denise Chancellor - indicated that it looked like EPA was going to place portions to the Bingham mine and smelter sites on the Superfund List.

She also indicated that the Natural Resources Damage Claim (NRDC) for \$12,000,000 is still moving slowly through the 10th Circuit Court of Appeals. Also, the NRDC is a separate issue from the CERCLA clean-up, that has been going on for the last 2-3 years. The clean-up does not exonerate Kennecott from having to pay the NRDC.



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2. John Whitehead - discussed the water issues associated with the Kennecott operation. An issue currently exists with the deposition of sludge from the small Bingham Reservoir used to impound and treat dump leachate water. The operator wants to deposit it in the primary sediment collection basin associated with the Large Bingham Reservoir. The facility is not lined properly.

John indicated that DWQ now wants all of the Bingham dumps to report to the leachate collection system. Apparently groundwater contamination has been found in the smelter area associated with selenium and arsenic.

3. Dianne Simmons - discussed community relations. DERR is attempting to generate a public information/education plan to address the clean-up going on at the Bingham and Garfield sites.
4. Tia Leber - discussed blood lead level studies going on at various sites associated with the old mine impacts. The operator is looking at lead and other metal levels in swine, wildlife, garden plants and people. The screening level for lead will be 500 ppm.
5. Bill Wallner - indicated that the operator had several landfills onsite. One landfill is located on the Magna Tailings pond. HSRC does not permit this landfill. However, Mr. Wallner indicated that Salt Lake County does permit it.

Apparently, the operator plans to place waste water treatment sludges on the tailings pond. This would have a direct bearing on water quality impacts and revegetation potential of the tailings facility.

6. We discussed institutional controls and the fact that it would probably be necessary for cities or counties to zone areas off limits for certain types of development.
7. DOGM staff discussed the existing Kennecott permits and handed out the attached outline. We also discussed outstanding issues which are developed in the outline.

DERR staff indicated that someone at Kennecott had said that all waste dumps at Bingham would be eventually graded to 3:1 slopes. DOGM would like to get this in writing from the operator.

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Kennecott/Arco Multimedia Team Mtg.

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DERR staff also indicated that the South Jordan evaporation ponds had been used for emergency overflow in the early 80s. This would bring this portion of the site under DOGM rules.

Summary

At meeting closure it was the consensus of those attending that the meeting had been productive and that it would be beneficial to continue the meetings. We decided that, for now, monthly meeting would be best. The next meeting date has been scheduled for Jan. 27, 1994.

jb

Attachment

cc: Lowell Braxton

Wayne Hedberg

M035002

MEETING AGENDA
STATE OF UTAH - KENNECOTT / ARCO MULTIMEDIA TEAM

December 9, 1993
9:00 am at DERR Rm. 273

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Members: Brad Johnson, Brent Everett, Sandra Allen, Tia Leber, Randy Taylor, Renette Anderson (DERR);
Denise Chancellor (UAG); John Whitehead (DWQ); Bill Wallner (DSHW); Doug Jones (DAQ);
Holland Shepherd (DOGM)

ITEM

I- Natural Resource Damage Claim. - Denise.

II- Water Quality Construction. - John.

A- Magna Tailings Pond Expansion.

B- Large Reservoir/Debris Collection Basin.

C- East Side Collection System.

III- Water Quality Permits & Issues. - John.

A- Groundwater Protection Rules Changes.

I- Affect on ARAR's.

B- Refinery.

C- Smelter.

D- UPDES Permit.

IV- Community Relations Plan. Draft to EPA Schedule. - Renette.

V- Risk Assessment Issues. - Tia.

A- Blood Lead Study (County/KUC/ARCO)

B- Garden Vegetable Study.

C- Elk/Deer Bio Assay.

D- Risk Assessment Document Status.

VI- RCRA Issues/Permits. - Bill.

VII- Air Quality Issues/State Implementation Plan. - Doug.

VIII- Institutional Controls. - Sandra.

A- West Jordan.

B- South Jordan.

IX- DOGM Issues / Reclamation. - Holland. ✓

X- CERCLA Issues. - Randy.

A- Listing Status. - Brent.

B- Study Area Management Plan Status.

C- Removals Status.

1- Bingham Creek.

a- Interstate Brick.

b- Kennecott.

c- ARCO.

2- Lark.

3- ARCO Tailings.

4- Jordan Valley Groundwater Plume.

D- Future Projects.

1- Waste Water Treatment Plant Sludge (Magna).

2- South Jordan Evaporation Ponds.

XI- Other Concerns. - Randy.

A- Wetlands.

B- Fish & Game/Habitat Protection.

C- Flood Control.

D- Historical Sites.

E- Water Rights & Dam Safety.

F- Utah Dept. of Transportation.

XII- Other.

December 8, 1993

Utah Div. of Oil, Gas and Mining

Summary of Permits and Issues related to Kennecott
Properties in the Oquirrh Mountains

I. Permits

1. Bingham Canyon Mine, M/035/002
 - a. permitted 8/76
 - b. acreage 16,525
 - c. bond - Board Contract for \$50,000 of reclamation research per year
 - d. mineral mined - copper
 - e. current or pending permitting - eastside collection project
2. 4th Line Concentrator and UCD Modernization Project, M/035/011
 - a. permitted 8/91
 - b. acreage 575
 - c. bond amount \$14,280,00
 - d. mineral mined - copper, molybdenum
3. Pine Canyon Reclamation Project, M/045/004
 - a. permitted 9/80
 - b. acreage 17
 - c. bond - \$82,400
 - d. mineral - copper
5. Barneys Canyon, M/035/009
 - a. permit - 8/88
 - b. acreage - 599
 - c. bond - \$2,700,000
 - d. mineral - gold
 - e. current or pending permitting - Phase III expansion
4. North Perimeter, M/035/015
 - a. not yet permitted
 - b. acreage 2,500
 - c. bond - pending
 - d. mineral - salt
 - e. current or pending permitting - to be used for the Magna Tailings expansion

II. Outstanding Issues:

1. Bingham Canyon and the UCD Modernization Project, M/035/002
 - a. reclamation of the waste dumps
 - dumps are steep sloped, angle of repose

- many of the dumps consist of poor quality material, difficult to reclaim
 - topsoil salvage in front of the progressing dumps needs to be resolved
 - test plots have been established to evaluate dump reclamation
- b. tailings facility reclamation
- poor quality materials pose problem to reclamation
 - permanent self perpetuating reclamation is needed to stabilize surface and prevent dust generation
- c. pit stabilization at the end of mining
- d. revegetation of areas lacking topsoil
- e. permitting of areas associated with the DERR/EPA clean-ups

2. Barneys Canyon, M/035/009

- a. Waste Rock disposal question concerning overburden generated from the Melco pit
- b. experimental test plot program to evaluate steep slope reclamation